

ABSTRACT OF THE DISCLOSURE

An aluminum based material includes the elements of scandium (Sc), silicon (Si), magnesium (Mg), zirconium (Zr), copper (Cu), and aluminum (Al). Thus, the aluminum based material can be used to make a heatsink plate having a heatsink effect of 20%, so that the aluminum based material has a greater conductivity and heatsink effect. In addition, the aluminum crystal has a fined size smaller than 0.1 nanometer (0.1nm), thereby facilitating the later working process, so that the aluminum based material can be worked easily and conveniently.